

Appln No. 10/066,302

Amdt date July 19, 2005

Reply to Office action of April 19, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A medical apparatus for remodeling a mitral valve annulus adjacent to the coronary sinus, comprising:

an elongate body, having a proximal end region and a distal end region, each of the proximal and distal end regions dimensioned to reside completely within the vascular system, the elongate body being movable from a first configuration for transluminal delivery to at least a portion of the coronary sinus to a second configuration for remodeling the mitral valve annulus proximate the coronary sinus;

a forming element attached to the elongate body for manipulating the elongate body from the first transluminal configuration to the second remodeling configuration; and

a lock for retaining the body in the second configuration;

wherein the elongate body comprises a tube having a plurality of transverse slots therein and wherein the forming element includes a distal end portion fixed to the tube.

2. (Original) A medical apparatus as in Claim 1, wherein the elongate body forms an arc when in the remodeling configuration, by changing the shape of the slots.

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3. (Original) A medical apparatus as in Claim 2, wherein a best fit constant radius curve corresponding to the arc has a radius within the range of from about 10 mm to about 20 mm.

4. (Cancelled)

5. (Withdrawn) A medical apparatus as in Claim 1, wherein the lock comprises an interference fit.

6. (Withdrawn) A medical apparatus as in Claim 1, wherein the lock comprises a compression fit.

7. (Withdrawn) A medical apparatus as in Claim 1, wherein the lock comprises a ratchet.

8. (Previously Presented) A medical apparatus as in Claim 1, wherein the lock comprises an engagement surface, which is movable between a first, disengaged configuration and a second, engaged configuration.

9. (Withdrawn) A medical apparatus as in Claim 1, wherein the lock is biased in a locked direction.

10. (Withdrawn) A medical apparatus as in Claim 1, wherein the lock is biased in an unlocked direction.

11. (Original) A medical apparatus as in Claim 1, further comprising a coating on the body.

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12. (Original) A medical apparatus as in Claim 1, wherein the apparatus is movable from the implantation configuration to the remodeling configuration in response to proximal retraction of the forming element.

13. (Original) A medical apparatus as in Claim 1, wherein the apparatus is movable from the implantation configuration to the remodeling configuration in response to distal advancement of the forming element.

14. (Original) A medical apparatus as in Claim 1, further comprising an anchor for retaining the apparatus at a deployment site within a vessel.

15. (Withdrawn) A medical apparatus as in Claim 14, wherein the anchor comprises a distal extension of the apparatus.

16. (Withdrawn) A medical apparatus as in Claim 14, wherein the anchor comprises a friction enhancing surface structure for engaging the wall of the vessel.

17. (Original) A medical apparatus as in Claim 14, wherein the anchor comprises at least one barb for piercing the wall of the vessel.

18. (Original) A medical apparatus as in Claim 1, wherein the apparatus has an axial length of no more than about 10 cm.

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19. (Original) A medical apparatus as in Claim 18, wherein the maximum cross sectional dimension through the apparatus is no more than about 10 mm.

20. (Original) An implant for positioning within a patient, comprising:

an elongate flexible body having a proximal end and a distal end, and a longitudinal axis extending therebetween, and first and second opposing sides extending along the implant body at least part way between the proximal end and the distal end, the first side having a fixed axial length, and the second side having an adjustable axial length;

at least a first forming element extending through the body to a distal point of attachment to the body; and

a detachable coupling on a proximal portion of the body, for removably attaching the body to a deployment catheter;

wherein manipulation of the first forming element deflects at least a first portion of the body away from the longitudinal axis.

21. (Original) An implant as in Claim 20, wherein the body comprises a tubular wall.

22. (Original) An implant as in Claim 21, wherein the tubular wall is substantially noncompressible along the first side.

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23. (Original) An implant as in Claim 22, comprising a plurality of voids in the wall along the second side, thereby permitting axial shortening of the second side.

24. (Original) An implant as in Claim 23 wherein at least some of the voids comprise slots through the wall, extending generally transverse to the longitudinal axis.

25. (Original) An implant as in Claim 24 comprising at least 10 transverse slots in the wall of the second side.

26. (Original) An implant as in Claim 24 comprising at least 20 transverse slots in the wall of the second side.

27. (Original) An implant as in Claim 20, wherein the first forming element comprises an axially movable element.

28. (Original) An implant as in Claim 20, wherein the first forming element comprises a pull wire.

29. (Original) An implant as in Claim 20, further comprising at least a second forming element.

30. (Original) An implant as in Claim 29, wherein manipulation of the first forming element introduces a first curve in the body, and manipulation of the second forming element introduces a second curve in the body.

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31. (Original) An implant as in Claim 20, wherein distal movement of the forming element causes axial elongation of the second side thereby bending the implant.

32. (Original) An implant as in Claim 20, wherein proximal movement of the forming element causes axial compression of the second side thereby bending the implant.

33-37 (Cancelled)

38. (Previously Presented) A multizone vascular implant, comprising:

a tubular body having a proximal end region and a distal end region, each of the proximal and distal end regions dimensioned to reside completely within the vascular system, the tubular body being movable from a first configuration for transluminal delivery to at least a portion of the coronary sinus to a second configuration for remodeling the mitral valve annulus proximate the coronary sinus;

a plurality of transverse voids on the tubular body to permit flexing in at least one plane;

at least a first, proximal zone and a second, distal zone on the body;

a first control wire for imparting curvature in the first zone; and

a second control wire for imparting curvature in the second zone.

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39. (Original) A multizone vascular implant as in Claim 38, further comprising a third control wire for imparting curvature in a third zone.

40. (Cancelled)

41. (Currently Amended) A medical apparatus for remodeling a mitral valve annulus adjacent to the coronary sinus, comprising:

an elongate body, having a proximal end region and a distal end region, each of the proximal and distal end regions dimensioned to reside completely within the vascular system, the elongate body being movable from a first configuration for transluminal delivery to at least a portion of the coronary sinus to a second configuration for remodeling the mitral valve annulus proximate the coronary sinus;

a forming element attached to the elongate body for manipulating the elongate body from the first transluminal configuration to the second remodeling configuration; and

a lock for retaining the body in the second configuration; wherein the elongate body comprises a tube having a plurality of transverse slots therein; and, ~~as in Claim 1,~~

wherein the forming element extends through the elongate body from the proximal end region to the distal end region.

42. (New) A medical apparatus as in Claim 1, wherein the plurality of transverse slots are located along a side of the tube and wherein the distal end portion of the forming

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element is fixed to the tube at the side of the tube along which the plurality of transverse slots are located.